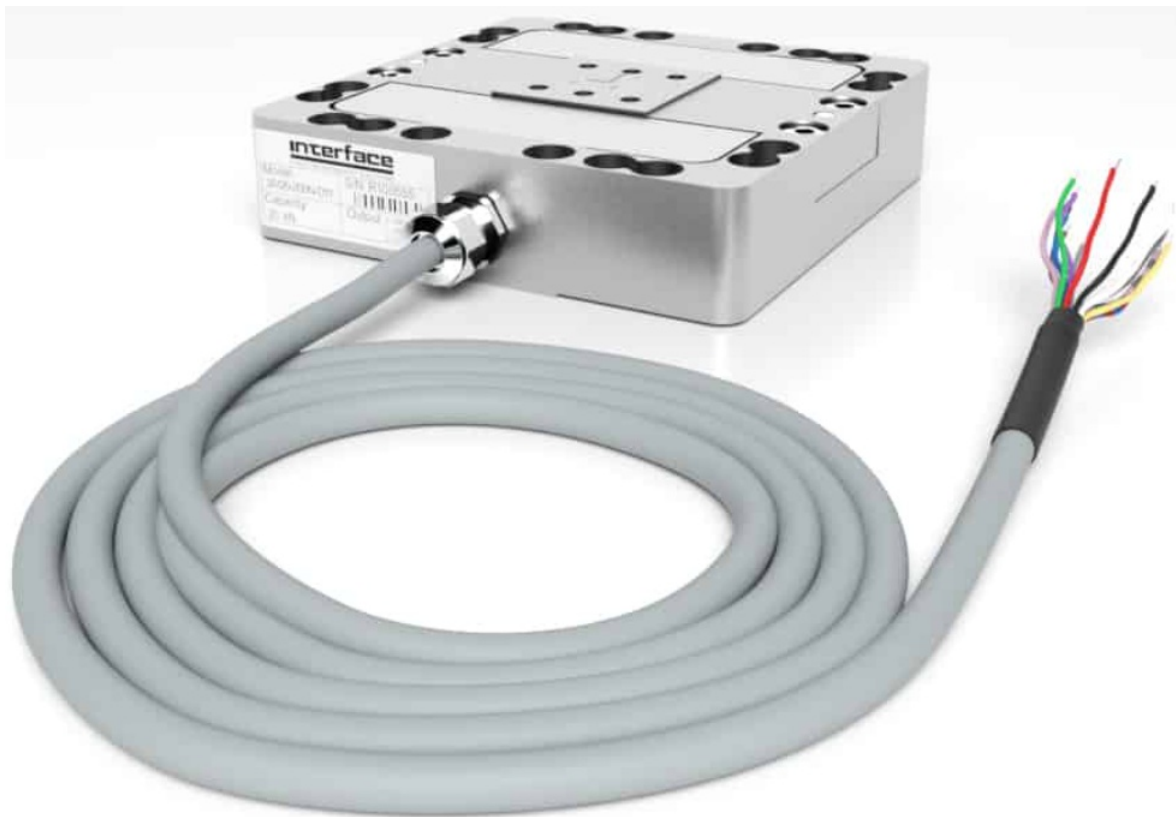




Interface 3A Series Multi Axis Load Cells Instruction Manual

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Interface 3A Series Multi Axis Load Cells Instruction Manual



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INSTALLATION INFORMATION

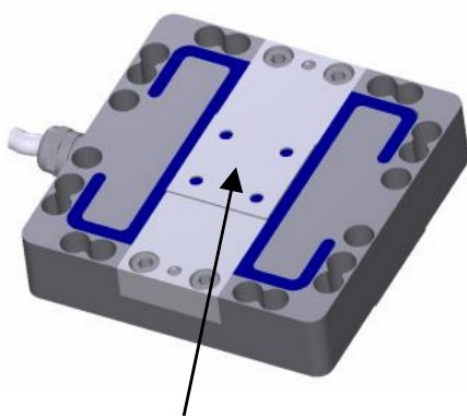
1. Interface model 3A Series multi-axis load cells must be mounted on a surface that is flat and rigid enough so as to not deform appreciably under load.
2. Fasteners should be Grade 8.8 for 3A60 thru 3A160 and Grade 10.9 for 3A300 and 3A400
3. Sensors should be mounted using the recommended screws and mounting torques in the table below.
4. Dowel pins should be used at all mounting surfaces.
5. For 3A300 and 3A400 at least two dowel pins should be used on the live end. Up to 5 can be used.
6. For sensors 500N and above, a thin coating of Loctite 638 or similar is recommended on the three mounting surfaces to prevent slippage.
7. Mounting fixtures and plates may only contact the sensor at the indicated mounting surfaces.

MOUNTING DETAILS

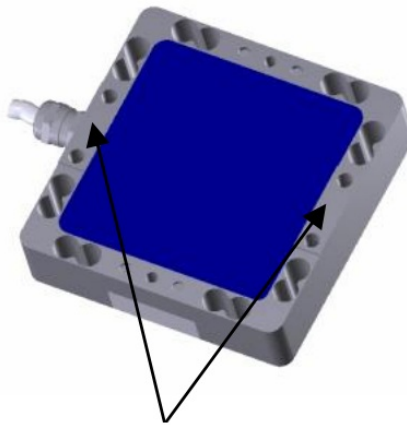
	Model	Rated Load / Capacity	Dimensions	Material	Measuring platform / Live End			Stator / Dead End		
					Thread	Tightening Torque (Nm)	Cylinder pin Hole (mm)	Thread / Cylindrical Screw	Tightening Torque (Nm)	Cylinder pin Hole (mm)
	3A40	±2N ±10N ±20N ±50N	40 mm x 40 mm x 20 mm	aluminum alloy	internal thread 4x M3x0.5 depth 8 mm	1	no	internal thread 4x M3x0.5 depth 8 mm	1	no
	3A60A	±10N ±20N ±50N ±100N	60 mm x 60 mm x 25 mm	aluminum alloy	internal thread 4x M3x0.5 depth 12 mm	1	2 x Ø2 E7 depth 12 mm	2 x DIN EN ISO 4762 M4x0.7 6.8	2	2 x Ø3 E7 depth 5 mm

		±200N ±500N	m	stainless steel	internal thread 4x M3x0.5 depth 12 mm	1	2 x Ø2 E7 depth 12 mm	2 x DIN EN ISO 4762 M4x0.7 6.8	2	2 x Ø3 E7 depth 5 mm
	3A120	±50N ±100N ±200N ±500N ±1000 N	120 mm x 120 mm x 30 mm	aluminum alloy	Internal thread 4x M6x1 Depth 12 mm	10	2 x Ø5 E7 Depth 12 mm	4 x DIN EN ISO 4762 M6x1 6.8	10	2 x Ø5 E7 depth 3 mm
		±1kN ±2kN ±5kN		stainless steel	internal thread 4x M6x1 Depth 12 mm	15	2 x Ø5 E7 Depth 12 mm	4 x DIN EN ISO 4762 M6x1 10.9	15	2 x Ø5 E7 depth 3 mm
	3A160	±2kN ±5kN	160 mm x 160 mm x 66 mm	tool steel	internal thread 4x M10x1.5 depth 15 mm	50	2 x Ø8 H7 depth 15 mm	4 x DIN EN ISO 4762 M12x1.75 10.9	80	2 x Ø8 H7 depth 5 mm
		±10kN ±20kN ±50kN		tool steel	internal thread 4x M10x1.5 depth 15 mm	60	2 x Ø8 H7 depth 15 mm	4 x DIN EN ISO 4762 M12x1.75 10.9	100	2 x Ø8 H7 depth 5 mm
		±50kN				500			500	
			300 mm x					4 x DIN EN ISO		2 x Ø2

	3A300	±100k N ±200k N	300 m m x 100 m m	tool steel	internal thread 4x M24x3	800	5x Ø25 H7	SO 4762 M24x3 10.9	800	5 H7 depth 40 m m
	3A400	±500k N	400 m m x 400 m m x 100 m m	tool steel	internal thread 4x M30x3.5	1800	5x Ø30 E7	4 x DIN EN ISO 4762 M30x3.5 10.9	1800	2 x Ø30 E7 depth 40 m m



Live End
mounting surface



Dead End
mounting surfaces

Interface Inc.

- 7401 East Butherus Drive
- Scottsdale, Arizona 85260 USA

Support

Phone: 480.948.5555

Fax: 480.948.1924

www.interfaceforce.com

Documents / Resources



[Interface 3A Series Multi Axis Load Cells](#) [pdf] Instruction Manual
3A Series, Multi Axis Load Cells, 3A Series Multi Axis Load Cells, Axis Load Cells

References

- [Interface Force Measurement Solutions](#)
- [Interface Force Measurement Solutions](#)